

Arsenic in Water Technology Vendors Forum and Theme Session

New Mexico Environmental Health Conference Albuquerque, NM

October 19 - 20, 2004







Background

- Recent reduction of drinking water Maximum
 Concentration Level (MCL) for arsenic from 50 ppb to 10
 ppb was intended to reduce incidence of bladder cancer
 and other cancers in US.
- Southwestern United States is characterized by high and variable background levels for arsenic
- Estimated national annual costs of implementing 10 ppb
 MCL range from \$165M to \$605M to save 7 33 lives.
 - \$5M \$23.9M /life saved
 - \$1.3M \$6.6M/ year of life saved

Can innovative technologies reduce cost and lead to overall improvements in water quality?



New Mexico Environmental Health Conference (October 2003)

- Theme session to introduce Partnership
- Vendors Forum to evaluate commercial technologies
- Technologies selected for 2004 pilots
 - Magnesium Elektron Inc. (Isolux Zr-oxide)
 - Hydroglobe (MetSorb nanocrystalline Ti-oxide)
 - AdEdge (Granular Fe-oxide)
 - Filtronics (Coagulation/Electromedia filtration)
 - Kinetico (Macrolite media)





2004 NMEHC Program Concept

- October 19 AM: Theme session with invited speakers
- Vendors Forum
 - October 19 PM: presentations by vendors
 - October 20: interview of vendors by technical teams
- Exhibit Hall: October 18 19

Organized by Sandia National Laboratories for the Arsenic Water Technology Partnership

Forum Objective: select technologies for 2004-2005 pilot demonstrations of innovative As removal technologies for drinking water.





- Overview of Issues Related to Arsenic in New Mexico Drinking Water
 - Exposure assessment/Health effects tracking
 - Implementation of new Standard
 - Arsenic occurrence and solutions on Navajo Nation
- Pilot Studies conducted by EPA/NSF and Engineering Firms
 - Environmental Technology Verification (ETV)
 - Narasimhan Consulting, Inc. in New Mexico and Arizona
- Update on Arsenic Water Technology Partnership
 - AwwaRF Bench-scale Research Program
 - Sandia Pilot Demonstration Project
 - WERC Cost Model Analysis

